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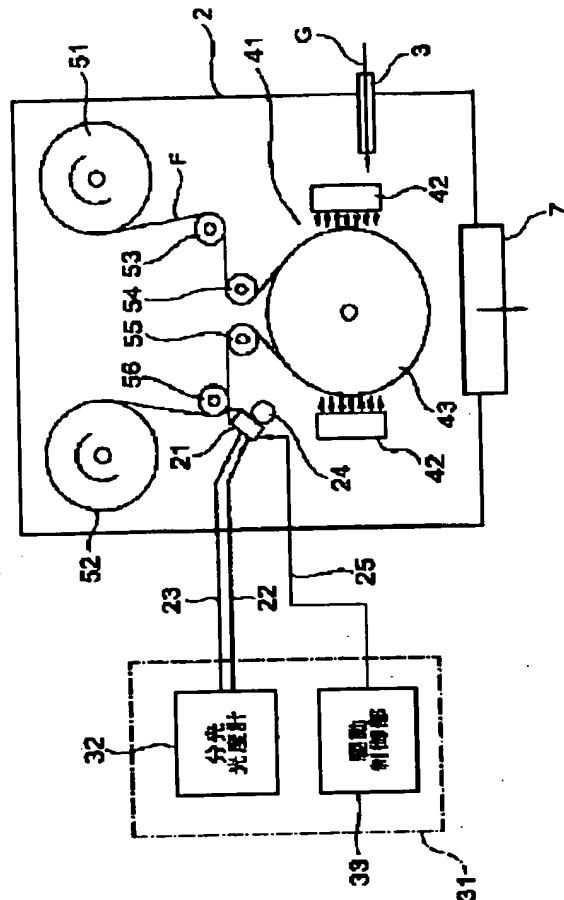
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TITLE : FILM FORMING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide the film forming device which can measure optical characteristics of a thin film continuously along the width of a base material with relatively simple constitution having the thin film formed on the base material.

SOLUTION: The device has an optical head 2 comprising a light output part which is provided in a vacuum chamber 2 and outputs light for optical characteristic measurement for measuring optical characteristics of the thin film to the plastic film where the thin film is formed and a light input part which inputs measuring light converted to light where the optical characteristics of the thin film are reflected, a spectrophotometer 32 as an optical characteristic detecting means which is provided outside the vacuum chamber 2 and generates light for optical characteristic measurement, receives the measuring light, and detects the optical characteristics of the thin film according to the light quantity difference between the light for optical characteristic measurement and the measuring light, and optical fibers 22 and 23 as 1st and 2nd light guide means which guide light between the spectrophotometer 32 and optical head 21.

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